

# PROCESS FOR DETECTING EVANESCENTLY EXCITED LUMINESCENCE

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## Also published as:

WO9533197 (A1)  
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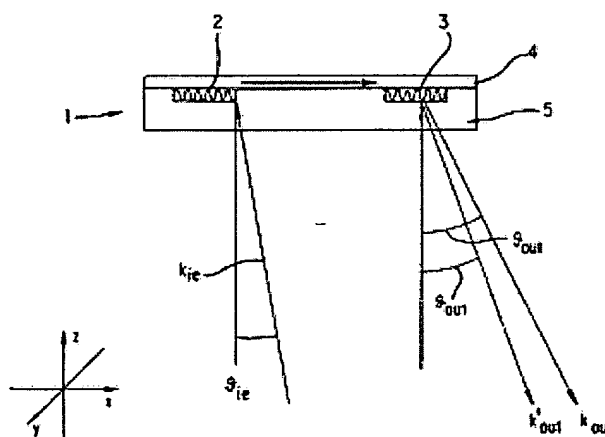
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## Abstract of WO9533198

The invention relates to a process for determining luminescence with a planar dielectric optical sensor platform which consists of a transparent substrate (a) to which a thin transparent waveguiding layer (b) is applied, which sensor platform is provided with a coupling grating for the input-coupling of the excitation light and the refractive index of said substrate (a) is lower than the refractive index of the waveguiding layer (b), by bringing a liquid sample as superstrate into contact with the layer (b), and measuring the luminescence produced by substances having luminescence properties in the sample, or by substances having luminescence properties immobilised on the layer (b), optoelectronically. The invention also relates to the use of the process in quantitative affinity sensing and to the use thereof for the quantitative determination of luminescent constituents in optically turbid solutions, and to a sensor platform for carrying out said process.



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